

7. REGULATIONS AND ADVISORIES

International, national, and state regulations and guidelines pertinent to human exposure to 1,3-dichloropropene are summarized in Table 7-1.

1,3-Dichloropropene is regulated by the Clean Water Effluent Guidelines for the following industrial point sources: electroplating, organic chemicals production, steam electricity power generation, asbestos product manufacturing, timber products processing, metal finishing, paving, roofing, paint formulating, ink formulating, gum and wood chemicals manufacturing, and carbon black manufacturing (EPA 1988).

7. REGULATIONS AND ADVISORIES

TABLE 7-1. Regulations and Guidelines Applicable to 1,3-Dichloropropene

Agency	Description	Information	References
<u>INTERNATIONAL</u>			
IARC	Carcinogen classification	Group 2B ^a	IARC 1987
<u>NATIONAL</u>			
Regulations:			
a. Air:			
OSHA	PEL TWA (skin)	1 ppm ^b	OSHA 1989 (29 CFR 1910)
b. Water:			
EPA OWRS	Groundwater monitoring requirements	Yes	EPA 1987a (40 CFR 264)
c. Other:			
EPA OTS	Toxic chemical release reporting: community right-to-know (proposed)	Yes	EPA 1987b (40 CFR 372.45)
EPA OERR	RQ 100 lbs	EPA 1986b	(40 CFR 302.4)
Guidelines:			
a. Air:			
ACGIH	TWA-TLV	1 ppm	ACGIH 1989
EPA	RfC (inhalation)	0.02 mg/m ³	IRIS 1991
b. Water:			
EPA OWRS	Ambient water quality criteria for protection of human health	87 ng/L ^c 14.1 mg/L ^d	EPA 1980
c. Other:			
EPA	RfD (oral) Carcinogen classification	0.0003 mg/kg/day Group B2 ^e	IRIS 1991
<u>STATE</u>			
Regulations and Guidelines:			
a. Air:			
Connecticut	Acceptable ambient air concentrations	100 ng/m ³	NATICH 1988
Kentucky	Acceptable ambient limits	10 mg/m ³	State of Kentucky 1986
North Dakota		0.05 mg/m ³	NATICH 1988
Nevada		0.009 mg/m ³	NATICH 1988
Virginia		80 mg/m ³	NATICH 1988
b. Water:			
Connecticut	Drinking water quality standards	10 g/L	FSTRAC 1988
Kansas		89 µg/L	
California	(New standard)	Yes	

^aGroup 2B: Possible human carcinogen^bBased on avoidance of kidney toxicity^cIngesting water and contaminated aquatic organisms^dIngesting contaminated aquatic organisms^eGroup B2: Probable human carcinogen

ACGIH = American Conference of Governmental Industrial Hygienists; EPA = Environmental Protection Agency; IARC = International Agency for Research on Cancer; OERR = Office of Emergency and Remedial Response; OSHA = Occupational Safety and Health Administration; OTS = Office of Toxic Substances; OWRS = Office of Water Regulations and Standards; PEL = Permissible Exposure Limit; RfC = Reference Concentration; RfD = Reference dose; RQ = Reportable Quantity; TLV = Threshold Limit Value; TWA = Time-weighted Average